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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/648,158 | 08/25/2003 | Kenneth MC Cheung | V0690.0008/P008 | 3550 |

7590 08/21/2006

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EXAMINER

SHAFFER, RICHARD R

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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3733

DATE MAILED: 08/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|---------------------------------------|--------------------------------------|--|
| Office Action Summary | Application No. 10/648,158 | Applicant(s) CHEUNG ET AL. | |
| | Examiner Richard R. Shaffer | Art Unit 3733 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 June 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) 1-19,30 and 31 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 20-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input checked="" type="checkbox"/> Other: <u>EP0470660A1</u> |

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Invention II (Claims 20-29) and the species as shown in Figures 6a and 6b in the reply filed on June 1st, 2006 is acknowledged.

Claims 1-19 and 30-31 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on June 1st, 2006.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 20-24 and 26-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Sanders et al (US Patent 5,290,289).

Sanders et al disclose a method for correcting spinal deformities comprising: providing a correction force with a Nitinol rod (**Column 5, Lines 50-65**) which can apply some correction during surgery, but primarily providing correction post-operatively by

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remotely heating the rod with a radio frequency induction heater (**Column 7, Lines 55-60**) The heating allows for individual adjustment of the rod sections for corrective force. In regard to claims 28 and 29, anterior and posterior can relate to any direction as broadly recited, and when considering **Figure 2**, it is clear that the device does apply force to a side of the vertebra.

Claims 20-25 and 28-29 rejected under 35 U.S.C. 102(b) as being anticipated by Cool et al (European Patent Application 0 470 660 A1).

Cool et al disclose a method for correcting spinal deformities comprising: providing a correction force with a Ti-Ni alloy rod (**Column 4, Lines 54-55**) with pseudoelastic behavior (**Column 2, Lines 50-55**) having various cross-sections (i.e. square, rectangular) which can adjust the force applied; a force is present operatively by inherent process of placing the spine and device in alignment; the prolonged corrective force is activated by the body's own heat (**Column 1, Line 1 through Column 2, Line 26**). Again, in regard to claims 28 and 29, anterior and posterior can relate to any direction as broadly recited. In regard to claim 23, the correction is still activated post-operatively.

Claims 20-24 and 28-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Drewry et al (US Patent 6,783,527).

Drewry et al disclose a method for correcting spinal deformities comprising: providing a correction force through the use of tethers (**80**) made of Nitinol (**Column 3, Lines 60-65**) which is inherently activated by heat; the forces activated during surgery

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and post-operatively are adjusted/set by tensioning the tethers (80) by the surgeon. The overall device can be placed anteriorly or posteriorly (**Column 3, Lines 48-55**).

Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard R. Shaffer whose telephone number is 571-272-8683. The examiner can normally be reached on Monday-Friday (7am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Richard Shaffer
August 17th, 2006



EDUARDO C. ROBERT
SUPERVISORY PATENT EXAMINER